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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,430	07/09/2001	Friedhelm Beckmann	2763/207-187	7357

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EXAMINER

FONTAINE, MONICA A

ART UNIT PAPER NUMBER

1732

DATE MAILED: 03/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	09/901,430	BECKMANN, FRIEDHELM	
	Examiner	Art Unit	
	Monica A Fontaine	1732	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 January 2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) 8 and 9 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

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### DETAILED ACTION

This office action is in response to the Amendment filed 9 January 2004.

All rejections in the paper mailed 6 August 2003 have been withdrawn in light of applicant's amended claim 1.

#### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Mares (U.S. Patent 4,275,030). Regarding Claim 1, Mares shows that it is known to carry out a method of producing a plastic component (Abstract), which comprises placing a first, high-strength material into one single shaping mold (Column 1, lines 21-29; Column 2, lines 53-59); introducing a second material having a lesser strength than the first material into the mold with an injection molding process when the first material has a given amount of residual heat (Column 1, lines 35-47; Column 2, lines 35-47); and bonding the first and second materials to a composite by utilizing the given amount of residual heat of the first material, producing the plastic component with a strength higher than said first material (Column 1, lines 21-29, 35-47; Column 2, lines 35-47).

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Regarding Claim 3, Mares shows the process as claimed as discussed in the rejection of Claim 1 above, including a method in which it is known to screen off a region of the mold with a slide and molding the first material in the screened-off region, and after pulling the slide and a cooling period, bonding the second material to the first material, while the first material still heat (Column 2, lines 35-51).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 4, and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mares, in view of Bertschi et al. (U.S. Patent 5,651,998).

Regarding Claim 2, Mares shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show the use of fiber material in the molding process. Bertschi et al., hereafter "Bertschi," show that it is known to carry out a method which comprises incorporating fiber materials in the materials for raising a structural strength of the plastic component (Column 5, lines 56-67; Column 6, lines 18-31). Bertschi and Mares are combinable because they are concerned with a similar technical field, namely, that of molding operations comprising bonding two plastics together in situ. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Bertschi's fiber material in Mares' molding process to raise the strength of the resulting article.

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Regarding Claim 4, Mares shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show using a prefabricated component in his molding operation. Bertschi shows that it is known to carry out a molding method which comprises inserting a prefabricated component formed of the first material with a given amount of residual heat, and subsequently bonding the second material to the first material (Column 6, lines 18-31). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Bertschi's prefabricated component in Mares' molding process in order to raise the strength of the resulting article.

Regarding Claim 5, Mares shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show specific ribbing in his article. Bertschi shows that it is known to carry out a method of molding which comprises forming the first material as a component formed with ribbing (Figures 7 and 8). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to form Bertschi's ribbing with Mares' molding process in order to produce a part per a certain product specification which calls for ribbing.

Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mares, in view of Hara et al. (U.S. Patent 5,277,865).

Regarding Claim 6, Mares shows the process as claimed as discussed above, but does not show forming a hollow area in the first resin. Hara et al., hereafter "Hara," show that it is known to carry out an injection molding method which comprises forming a first material as a component having a hollow portion (Column 1, line 66 - Column 2, line 11). Hara and Mares

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are combinable because they are concerned with a similar technical field, namely, that of injection molding operations involving thermoplastic materials. It would have been obvious to one of ordinary skill in the art at the time the invention was made to make Hara's hollow portion in Mares' molding method in order to make Patel's molded article more stiff and lightweight (see Hara, Column 4, lines 48-53).

Regarding Claim 7, Mares shows the process as claimed as discussed above, but does not show injecting an inert gas into the first resin. Hara shows that it is known to carry out a method which comprises forming a hollow portion by injecting an inert gas into the first material when the first material is still in a plastic phase (Column 2, lines 1-9). It would have been obvious to one of ordinary skill in the art at the time the invention was made to inject Hara's gas into Mares' first resin in order to make Patel's molded article more stiff and lightweight (see Hara, Column 4, lines 48-53).

### ***Response to Arguments***

Applicant's arguments with respect to claims 1-7 have been considered but are moot in view of the new ground(s) of rejection (specifically, the now-claimed "one single shaping mold" limitation in claim 1).

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica A Fontaine whose telephone number is 571-272-1198. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Colaianni can be reached on 571-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Maf  
February 28, 2004



**MICHAEL COLAIANNI**  
**PRIMARY EXAMINER**